

## REMARKS

Applicants respectfully request reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

### **Status of Claims:**

Claims 10-13 are currently being cancelled.

Claims 1, 5, 7-9, 14, 17 and 20 are currently being amended.

No claims are currently being added.

This amendment and reply amends and cancels claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claim(s) remain under examination in the application, is presented, with an appropriate defined status identifier.

After amending and canceling the claims as set forth above, claims 1-5, 7-9 and 14-23 are now pending in this application.

### **Specification Objections:**

In the Office Action, the specification was objected to because of informalities noted on page 2 of the Office Action. The specification has been amended to correct those informalities.

### **Claim Rejections – Prior Art:**

In the Office Action, claims 1-5 and 10-23 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicants Admitted Prior Art (AAPA) in view of U.S. Patent No. 7,076,217 to Luff et al.; and claims 7-9 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicants Admitted Prior Art (AAPA) in view of U.S. Patent No. 6,972,633 to Vihonen et al. These rejections are traversed with respect to the presently pending claims under rejection, for at least the reasons given below.

Independent claim 1 recites a step of amplifying the signal before the step of filtering the signal. The Office Action correctly recognizes that AAPA does not teach or suggest this step, but the Office Action incorrectly asserts that Luff et al. teaches these features. Namely, the Office Action asserts that Figure 1 of Luff et al. shows a transceiver “that amplifies a signal before passing the signal to a demodulator that may be a discriminator and data slicer (the IF amplifier increase the IF signal level before being processed by the demodulator 14).” In reply, Figure 1 of Luff et al. clearly shows that a signal is passed through an IQ IF Filter 10 prior to being input to an IF Amplifier 12, which is contrary to the above-mentioned features of claim 1 in which a signal is amplified before being filtered.

Accordingly, for at least these reasons, presently pending independent claim 1 is patentable over the cited art of record.

Furthermore, presently pending independent claim 1 has been amended to recite a step of “using only the output of the RC circuit and no part of the filtered signal as the reference voltage for the comparator.” As is clear from a comparison of the Prior Art Figure 1 with Figure 5 which shows an embodiment of the invention, Prior Art Figure 1 shows that a signal output from the filter 14 is provided to a Resistor – Capacitor pair RC, whereby the signal output from the filter 114 in Figure 5 is not provided to the resistor 123 or the capacitor 120.

Accordingly, presently pending independent claim 1 is patentable for these additional reasons, beyond the reasons given above for another step in that claim. Presently pending independent claims 5, 7, 8, 9, 14, 17 and 20 have been amended in a manner similar to the amendments discussed in the immediately preceding paragraph with respect to claim 1, whereby those claims are also patentable over the cited art of record for similar reasons.

**Conclusion:**

Since all of the issues raised in the Office Action have been addressed in this Amendment and Reply, Applicants believe that the present application is now in condition for allowance, and an early indication of allowance is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check or credit card payment form being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicants hereby petition for such extension under 37 C.F.R. § 1.136 and authorize payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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